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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/598,139	05/16/2007	Michael R. Powell	73358-032201	1485	
	3717 7590 08/16/2010 GREENBERG TRAURIG LLP (LA)			EXAMINER	
2450 COLORADO AVENUE, SUITE 400E INTELLECTUAL PROPERTY DEPARTMENT SANTA MONICA, CA 90404			MAUST, TIMOTHY LEWIS		
			ART UNIT	PAPER NUMBER	
			3751		
			NOTIFICATION DATE	DELIVERY MODE	
			08/16/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

laipmail@gtlaw.com santosv@gtlaw.com burnsja@gtlaw.com

	Application No.	Applicant(s)				
Office Action Comments	10/598,139	POWELL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Timothy L. Maust	3751				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 16 Ma	av 2007.					
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 18 August 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/24/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te				

DETAILED ACTION

Specification

The abstract of the disclosure is objected to because the phrase "The present disclosure is related to" should be deleted and the abstract should be at least 50 words in length. Correction is required. See MPEP § 608.01(b).

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, "the storage apparatus arranged in a stacked fashion, thus providing cartridges and is further enclosed in an outer enclosure containing suitable inlet and outlet fittings" must be shown or the feature(s) canceled from claim 15. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

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of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9, 11-14 and 16-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Turillon et al. (4134491)

Regarding claims 1, 3, 6, 7 and 13, the Turillon et al. reference discloses a method for storing volatiles under pressure, comprising; providing a cylindrical storage apparatus (20), wherein said storage apparatus includes an outer portion and a foam component (34), wherein said foam component is contained within an inner space defined by said outer portion; connecting said storage apparatus to a source for providing a volatile (hydrogen); and conducting said volatile from said source into said storage apparatus (see col. 3, lines 9-13).

Regarding claims 2 and 8, wherein said foam component includes closed cells (see col. 3, lines 31-33) with low, but nonzero, cell-wall permeability.

Regarding claim 4, wherein said volatile is at least one of ammonia, butane and propane (see column 3, lines 35-50).

Regarding claims 5 and 11, wherein at least a portion of a surface of said foam component is sealed (inherent to closed cell foam).

Regarding claim 9, wherein said outer portion is composed of at least one of a metal, alloy and plastic (see col. 1, lines 1-3).

Regarding claim 12, wherein said foam component is provided with at least one channel (see collapsible structure 28).

Regarding claims 18 and 19, any part of the apparatus being contact with the atmosphere is construed by the Examiner as "air cooling" the device.

Regarding claims 20 and 21, the device is capable of being used with a hydrogen generator or a fuel cell power system.

In regard to claims 14, 16 and 17, the statements of intended use and all other functional statements have been carefully considered but are deemed not to impose any structural limitations on the claims distinguishable over the Turillon et al. device, wherein several such storage apparatus can be (i.e., are capable) of being manifolded together to increase volatile delivery rate, wherein a safe delivery rate of each device is maintained. Whether the device was actually used in such a manner is dependent upon

the performance or non-performance of a future act of use and not upon a particular structural relationship set forth in the claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Turillon et al.

Regarding claim 10, the Turillon et al. reference discloses the invention substantially as claimed (discussed supra), but doesn't disclose said foam component having a void fraction of about greater than 60%. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include a void fraction in the foam component of about greater than 60%, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art of record pertains to various gas storage systems, similar to Applicant's device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy L. Maust whose telephone number is (571) 272-4891. The examiner can normally be reached on Mon. - Thur. 7:00-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Huson can be reached on (571) 272-4883. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Timothy L Maust/ Primary Examiner Art Unit 3751